## IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (Previously presented): A method for generating antialiased lines, comprising the actions of:
  - for each respective line, determining which of a plurality of orientation classes that entire line falls into; and
  - performing subpixel sampling using one of a plurality of multi-point sampling patterns, in dependence on which of said plurality of orientation classes that line falls into.
- 2. (original): The method of claim 1, wherein said classes consist of x-major and y-major.
- 3. (original): The method of claim 1, wherein said orientation classes correspond one-to-one to said sampling patterns.
- 4. (canceled)

- 5. (Previously presented) A method for antialiased rendering, comprising the actions of:
  - (a) identifying, for at least one respective entire line, which one of a limited number of directions is most nearly parallel to said line; and
  - (b) performing subpixel sampling on said line with a subpixel multipoint sampling pattern which has maximal resolution approximately normal to said one direction.
- 6. (original): The method of claim 5, wherein said number of directions is two.
- 7. (original): A graphics processor which is configured to implement the method of claim 1.
- 8. (original): A graphics processor which is configured to implement the method of claim 5.
- 9. (previously presented): The method of claim 2, wherein said classification of x-major and y-major depends on whether the x or y extent of the line is larger.
- 10. (previously presented): The method of claim 1, wherein said sampling patterns have the same number of sub-pixel sampling points.
- 11. (previously presented): The method of claim 1, wherein said sampling patterns have four sub-pixel sampling points.
- 12. (previously presented): The method of claim 5, wherein said sampling pattern has four sub-pixel sampling points.

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- 13. (Previously presented) A computer graphics system for generating antialiased lines comprising:
  - means for determining which of a plurality of orientation classes an entire line falls into; and
  - means for performing subpixel sampling using one of a plurality of multi-point sampling patterns, in dependence on which of said plurality of orientation classes that line falls into.
- 14. (previously presented): The system of claim 13, wherein said classes consist of x-major and y-major.
- 15. (previously presented): The system of claim 14, wherein said classification of x-major and y-major depends on whether the x or y extent of the line is larger.
- 16. (previously presented): The system of claim 13, wherein said orientation classes correspond one-to-one to said sampling patterns.
- 17. (previously presented): The system of claim 13, wherein said sampling patterns have the same number of sub-pixel sampling points.
- 18. (previously presented): The system of claim 13, wherein said sampling patterns have four sub-pixel sampling points.

- 19. (Previously presented) A computer graphics system for generating antialiased lines comprising:
  - means for identifying, for all of at least one respective line, which one of a limited number of directions is most nearly parallel to said line; and
  - means for performing subpixel sampling on said line with a subpixel multi-point sampling pattern which has maximal resolution approximately normal to said one direction.
- 20. (previously presented): The system of claim 19, wherein said number of directions is two.
- 21. (previously presented): The system of claim 19, wherein said sampling pattern has four sub-pixel sampling points.

- 22. (Previously presented) A method for generating antialiased lines, comprising the steps of for each respective line:
  - determining which of a plurality of orientation classes that entire line falls into; and
  - performing subpixel sampling using one of a plurality of multi-point sampling patterns, in dependence on which of said plurality of orientation classes that line falls into.
- 23. (previously presented): The method of claim 22, wherein said classes consist of x-major and y-major.
- 24. (previously presented): The method of claim 23, wherein said classification of x-major and y-major depends on whether the x or y extent of the line is larger.
- 25. (previously presented): The method of claim 22, wherein said orientation classes correspond one-to-one to said sampling patterns.
- 26. (previously presented): The method of claim 22, wherein said sampling patterns have the same number of sub-pixel sampling points.
- 27. (previously presented): The method of claim 22, wherein said sampling patterns have four sub-pixel sampling points.

- 28. (Previously presented) A method for generating antialiased lines, comprising the steps of:
  - identifying, for at least one respective entire line, which one of a limited number of directions is most nearly parallel to said line; and performing subpixel sampling on said line with a subpixel multi-point sampling pattern which has maximal resolution approximately
- 29. (previously presented): The method of claim 28, wherein said number of directions is two.

normal to said one direction.

30. (previously presented): The method of claim 28, wherein said sampling pattern has four sub-pixel sampling points.